Patent Docket P1872R1

TECHNOLOGY COUZ TALLA
HE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Venita I. DeAlmeida et al.

Serial No.: 10/077,065

Filed: 15 February 2002

For: TREATMENT INVOLVING DKK-1 OR

ANTAGONISTS THEREOF

Group Art Unit: 3736

Examiner: Unassigned

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Assistant Commissioner of Patents, Washington, D.C. 20231 on

Emily Dutra

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents Washington, D.C. 20231

Sir:

Applicants submit herewith patents, publications or other information (attached hereto and listed on the attached revised Form PTO-1449) of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR §1.56.

This Information Disclosure Statement is filed in accordance with the provisions of:

[x]37 CFR §1.97(b)

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within three months of the filing date of the application other than a continued prosecution application under 37 CFR §1.53(d); or within three months of the date of entry of the national stage of a PCT application as set

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forth in 37 CFR§1.491, or before the mailing of the first Office action on the merits; or

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before the mailing of the first Office action after the filing of a request for a continued examination under 37 CFR §1.114.

37 CFR §1.97(c)

> by the applicant after the period specified in 37 CFR §1.97(b), but prior to the mailing date of any of a final action under 37 CFR §1.113, or a notice of allowance under 37 CFR §1.311, or an action that otherwise closes prosecution in the application, and is accompanied by either the fee set forth in 37 CFR §1.17(p) or a statement as specified in 37 CFR §1.97(e), as checked below.

[]37 CFR §1.97(d)

after the period specified in CFR §1.97(c), and is accompanied by the fee set forth in 37 CFR §1.17(p) and a statement as specified in 37 CFR §1.97(e), as checked below.

[If either of boxes 37 CFR §1.97(c) or 37 CFR §1.97(d) is checked above, the following statement under 37 CFR

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§1.97(e) may need to be completed.]

- [] 37 CFR §1.97(e) Each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.
- [] 37 CFR §1.704(d) Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application and the communication was not received by any individual designated in §1.56(c) more than thirty days prior to the filing of this information disclosure statement. Therefore, in accordance with the provisions of 37 CFR §1.704(d), the filing of this information disclosure statement will not be considered a failure to engage in reasonable efforts to conclude prosecution under 37 CFR §1.704.
- [] The U.S. Patent and Trademark Office is hereby authorized to charge Deposit Account No. 07-0630 in the amount of \$180.00 to cover the cost of this Information Disclosure Statement under 37 CFR §1.17(p). Any deficiency or overpayment should be charged or credited to this deposit account.

A list of the patent(s) or publication(s) is set forth on the attached revised Form PTO-1449 (Modified).

A copy of the items on PTO-1449 is supplied herewith.

[] BLAST results enclosed:

The undersigned also wishes to bring to the attention of the Examiner BLAST results of computerized alignments of the against sequences contained in the nucleotide and protein databases. The BLAST results are provided in paper form and are identified as reference "BLAST Results A-1- A-()" (nucleotide) and "BLAST Results B-1 - B-()" (protein) on the PTO Form 1449. Applicant requests that these references also be considered and that the Form 1449 be initialed to indicate the Examiner's consideration of the references.

A concise explanation of relevance of the items listed on PTO-1449 is:

- [x] not given
- [] given for each listed item
- [] given for only non-English language listed item(s) [Required]
- [] in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references.

In accordance with 37 CFR §1.97(g), the filing of this information disclosure statement shall not be construed as a representation that a search has been made.

In accordance with 37 CFR §1.97(h), the filing of this information disclosure statement shall not be construed to

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be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 CFR § 1.56(b).

In the event that the Office determines a fee to be due where none is specifically authorized in this paper, the U.S. Patent and Trademark Office is hereby authorized to charge Deposit Account No. 07-0630 in the amount of \$180.00 to cover the cost of this Information Disclosure Statement under 37 CFR §1.17(p).

Respectfully submitted,

GENENTECH, INC.

By: Jan E. Hasak

Reg. No. 28,616

Telephone No. (650) 225-1896

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				U.S. PATENT DOCUMENTS						
Examiner										
Initials		Document Number	Date	Name	Class	Subclass	s Filing Date			
	1	6,187,991	13.02.01	Soeller et al.						
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Initials	<u></u>	Document Number	Date	POTOEIVE	Class	Subclass	Translation Yes No			
	2	WO 00/18914	06.04.00	SEP 2 0 2000		30				
	3	WO 00/52047	08.09.00	PCT 2002		2	Fi			
	4	WO 98/46755	22.10.98	PCT TECHNOLOGY CENTER R3	400	20.72 11. R				
	5	WO 99/46281	16.09.99	PCT SENTER R3	700	2				
				OSURES (Including Author, Title, Date,						
	6	Islets of Langerh	osphatidylinos ans." <u>Biochem.</u>	itol 3-Kinase Signaling to Akt M & Biophys. Res. Comm. 277:455-4	ediates Surviv 61 (2000)	al in Isol	ated Canine			
	7	Anai et al., "Alt. 3-Kinase Activati	ered Expression on via Insulin	n Levels and Impaired Steps in t Receptor Substrates 1 and 2 in	he Pathway to Zucker Fatty F	Phosphatid	ylinositol etes. 47:13-23			
		3-Kinase Activation via Insulin Receptor Substrates 1 and 2 in Zucker Fatty Rats." <u>Diabetes.</u> 47:13-23 (Jan 1998)								
	T ⁸	Andreasson et al., "Decreased Insulin-Stimulated 3-0-Methylglucose Transport in In Vitro Incubated Muscle Strips from Type II Diabetic Subjects." <u>Acta Physiol. Scand.</u> 142:255-260 (1991)								
NO NO	H	Andreelli et al.,	"Defective Re	gulation of Phosphatidylinositol	-3-Kinase Gene	Expression	n in Skeletal			
>	C	Muscle and Adipose (1999)	e Tissue of No	n-Insulin-Dependent Diabetes Mel	litus Patients	." <u>Diabeto</u>	logia. 42:358-3			
0	m	Andreelli et al., "Regulation of Gene Expression During Severe Caloric Restriction: Lack of Induction				k of Induction				
p85alpha Phosphatidylinositol 3-Kinase mRNA in Skeletal Muscle of Patients with Type II (Non-Insulin-Dependent) Diabetes Mellitus." Diabetologia. 43:356-363 (2000)										
Andreasson et al., "Decreased Insulin-Stimulated 3-0-Methylglucose Tra Muscle Strips from Type II Diabetic Subjects." Acta Physiol. Scand. 14 Andreelli et al., "Defective Regulation of Phosphatidylinositol-3-Kina Muscle and Adipose Tissue of Non-Insulin-Dependent Diabetes Mellitus P (1999) Andreelli et al., "Regulation of Gene Expression During Severe Caloric p85alpha Phosphatidylinositol 3-Kinase mRNA in Skeletal Muscle of Pati (Non-Insulin-Dependent) Diabetes Mellitus." Diabetologia. 43:356-363 (Arner et al., "Defective Insulin Receptor Tyrosine Kinase in Human Ske (Non-Insulin-Dependent) Diabetes Mellitus." Diabetologia. 30:437-440 (Avignon et al., "Chronic Activation of Protein Kinase C in Soleus Musc			man Skeletal M	uscle in O	pesity and Type					
		Avignon et al., "(ignon et al., "Chronic Activation of Protein Kinase C in Soleus Muscles and Other Tissues of							
	12	Insulin-Resistant Type II Diabetic Goto-Kakizaki (GK), Obese/Aged, and Obese/Zucker Rats." <u>Diabetes.</u> 45:1396-1404 (Oct 1996)								
	13	Bafico et al., "No LRP6/Arrow." Nat.	ovel Mechanism Cell. Bio. 3:0	of Wnt Signalling Inhibition Me 583-686 (Jul 2001)	diated by Dick	kopf-1 Inte	eraction with			
		LRP6/Arrow." <u>Nat. Cell. Bio.</u> 3:683-686 (Jul 2001) Barroso et al., "Dominant Negative Mutations in Human PPARY Associated with Severe Insulin Resistance,								
	14	Barroso et al., "Dominant Negative Mutations in Human PPARY Associated with Severe Insulin Resistance, Diabetes Mellitus and Hypertension." <u>Nature.</u> 402:880-883 (Dec 1999)								
			and input comb.	Barthel et al., "A Constitutively Active Version of the Ser/Thr Kinase Akt Induces Production of the ob-						
 		Barthel et al., "A	A Constitutive	y Active Version of the Ser/Thr	Kinase Akt In	duces Produ	action of the ol			
	15	Barthel et al., "A Gene Product, Lept	Constitutivelin, in 3T3-L1	Adipocytes." <u>Endocrinology</u> . 138	Kinase Akt In (8):3559-3562	(1997)				
		Barthel et al., "A Gene Product, Lept	Constitutivelin, in 3T3-L1	y Active Version of the Ser/Thr Adipocytes." <u>Endocrinology</u> . 138 s in Diabetes Mellitus." <u>Diabet</u>	Kinase Akt In (8):3559-3562	(1997)				
	16	Barthel et al., "A Gene Product, Lept Bell, Graeme., "Mo 1991)	Constitutive in, in 3T3-L1 plecular Defect	Adipocytes. " Endocrinology. 138 s in Diabetes Mellitus. " Diabetes sion of the Insulin-Responsive of	Kinase Akt In (8):3559-3562	(1997) ture 1990)	40:413-422 (Apr			
	16	Barthel et al., "7 Gene Product, Lept Bell, Graeme., "Mo 1991) Berger et al., "De Fasting." Nature. Bernal-Mizrachi et	Constitutive cin, in 3T3-L1 plecular Defect ecreased Expres 340:70-72 (Jul	Adipocytes. " Endocrinology. 138 s in Diabetes Mellitus. " Diabetes sion of the Insulin-Responsive (1989) Cell Expression of Constitutive	Kinase Akt In (8):3559-3562 es. (Lilly Lec	(1997) ture 1990) orter in Di	40:413-422 (Aprilabetes and			
	16 17	Barthel et al., "A Gene Product, Lept Bell, Graeme., "Mo 1991) Berger et al., "De Fasting." Nature. Bernal-Mizrachi et Hypertrophy, Hyper Bjornholm et al.,	Constitutive in, in 3T3-L1 olecular Defect ecreased Expres 340:70-72 (Jul. al., "Isletß plasia, and Hy"Insulin Recep	Adipocytes. "Endocrinology. 138 s in Diabetes Mellitus. "Diabetes sion of the Insulin-Responsive of 1989) Cell Expression of Constitutive perinsulinemia. "J. Clin. Investor Substrate-1 Phosphorylation	Kinase Akt In (8):3559-3562 Es. (Lilly Lec Clucose Transp Ly Active Aktl L. 108(11):163 and Phosphati	(1997) ture 1990) orter in Di /PKBa Induc 1-1638 (Dec dylinositol	40:413-422 (Aprilabetes and ces Striking 2001)			
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Examiner	16 17 18	Barthel et al., "A Gene Product, Lept Bell, Graeme., "Mo 1991) Berger et al., "De Fasting." Nature. Bernal-Mizrachi et Hypertrophy, Hyper Bjornholm et al., Activity in Skelet (Mar 1997)	Constitutive in, in 3T3-L1 olecular Defect ecreased Expres 340:70-72 (Jul. al., "Isletß plasia, and Hy "Insulin Recepal Muscle From	Adipocytes. "Endocrinology. 138 s in Diabetes Mellitus." Diabetes is in Diabetes Mellitus. "Diabetes is in Diabetes Mellitus." Diabetes is in Diabetes is in Diabetes in 1989) Cell Expression of Constitutive perinsulinemia. "J. Clin. Investigation in NIDDM Subjects in Vivo In Constitution in NIDDM Subjects in NIDDM S	Kinase Akt In (8):3559-3562 Solution Transp Active Aktl 108(11):163 And Phosphatics	(1997) ture 1990) orter in Di /PKBα Induct 1-1638 (Decodylinositol tion." Diak	40:413-422 (Aprilabetes and ees Striking 2001)			
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	FORM	PTO-1	449 U.S. Dept. of Commerce	Atty Docket No.	Serial No.				
			Patent and Trademark Office	P1872R1	10/077,065				
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	(U	se sev	eral sheets if necessary)	1 0	Group 3736				
			THE DAY OF THE DAY						
L			OTHER DISCLOSORES HARBING Author, Title, Date Bodine et al., "Akt/mTOR Pathway is a Crucial Regulator of Ske	, reminent rayes, etc.)	→ '				
		20	Muscle Atrophy In Vivo. " Nature Cell Biology. 3:1014-1019 (Nov	2001)	N N				
		21	Bonadonna et al., "Roles of Glucose Transport and Glucose Phosof NIDDM." <u>Diabetes.</u> 45:915-925 (Jul 1996)	ő					
		Borello et al., "Transplacental Delivery of the Wnt Antagonist Frzbl Inhibits Development of Paraxial Mesoderm and Skeletal Myogenesis in Mouse Embryos." <u>Development</u> . 126:4247-4255 (199							
		23	Carvalho et al., "Impaired Phosphorylation and Insulin-Stimula of Protein Kinase B/Akt in Adipocytes from Type II Diabetic S	Diests." <u>Diabetologia</u> .	_ 43:1107-1115 (2000)				
		Chalfant et al., "Protein Kinase CO Expression is Increased Upon Differentiation of Human Sk 24 Muscle Cells: Dysregulation in Type 2 Diabetic Patients and a Fosible Role for Protein Kina Insulin-Stimulated Glycogen Synthase Activity." Endocrinology. 14148 (12373-2778 (2000)							
표		25	Charron and Kahn., "Divergent Molecular Mechanisms for Ingulin-Resistant Uglucose Transport in Muscle and Adipose Cells In Vivo." J. Bio. Chem. 265(14):7994-8000 (May CENT)						
SH CH	ON	RE	Chen et al., "Growth Retardation and Increased Apoptosis in Mice with Homogygous Disruption of the aktlement Gene." Genes and Development. 15:2203-2208 (2001)						
ECH CENTER 1600/2900	V 0 4		Cho et al., "Insulin Resistance and a Diabetes Mellitus-Like S Akt2 (PKBβ)." <u>Science.</u> 292:1728-1731 (Jun 2001)						
1600	2002		Cook et al., "Wingless Inactivates Glycogen Sythase Kinase-3 Via an Intracellular Signalling Pathway Which Involves a Protein Kinase C." <u>EMBO Journal</u> , 15(17):4526-4536 (1996)						
/2900		J ₂₉	Cossu and Borello., "Wnt Signaling and the Activation of Myogenesis in Mammals." <u>EMBO Journal.</u> 18(24):6867-6872 (1999)						
		30	Dadke et al., "Elevated Expression and Activity of Protein-Tyr Insulin-Resistant Type II Diabetic Goto-Kakizaki Rats." <u>Bioche</u>	m. & Biophys. Res. Cor	<u>nm.</u> 274:583-589 (2000)				
		31	Del Aguila et al., "Muscle Damage Impairs Insulin Stimulation Human Skeletal Muscle." <u>Am. J. Physiol. Endocrinol. Metab.</u> 279	:E206-E212 (2000)					
		32	Derave et al., "Muscle Glycogen Content Affects Insulin-Stimul B Activity." <u>Am. J. Physiol. Endocrinol. Metab.</u> 279:E947-E955	ated Glucose Transport (2000)	t and Protein Kinase				
	****	33	Desbois-Mouthon et al., "Insulin and IGF-1 Stimulate the β -Cat Cascades Involving GSK-3 β Inhibition and Ras Activation." Onco	gene. 20:252-259 (2001	1)				
		34	Ding et al., "Differential Regulation of Glycogen Synthase Kin Bio. Chem. 275(42):32475-32481 (Oct 2000)						
		35	Dohm et al., "Decreased Expression of Glucose Transporter in MAM. J. Physiol. 260:E459-E463 (1991)						
		36	Eldar-Finkelman et al., "Increased Glycogen Synthase Kinase-3 C57BL/6J Mice." <u>Diabetes.</u> 48:1-5 (Aug 1999)						
		37	Federici et al., "The Common Arg ^{9/2} Polymorphism in Insulin Re Human Pancreatic Islets ¹ ." <u>FASEB Journal.</u> 15:22-24 (Jan 2001)						
		38	Fedi et al., "Isolation and Biochemical Characterization of the of Mammalian Wnt Signaling." J. Bio. Chem. 274(27):19465-19472	(Jul 1999)					
		39	Folli et al., "Insulin Receptor/IRS-1/PI 3-Kinase Signaling Sy Resistance." Acta Diabetol. 33:185-192 (1996)	RECEIVE	duced Insulin				
	Examin	er	RECEIVE	Date Cons)2				

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 60 ECHWOline Chroligh Total Report of this form with next communication to applicant.

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FORM	M PTO-1	U.S. Dept. of Commerce	Atty Docket No.	Serial No.
	Patent and Tradem		P1872R1	10/077,065
LIST	OF DIS	SCLOSURES CITED BY APPLICANT	Applicant DeAlmeida and Stewart	
(U	(Use several sheets if necessary)			Group 3736
		OTHER DISCLOS RESCHOOLING Author, Title, Date	, Pertinent Pages, etc.)	
	60	Imazu et al., "Hyperinsulinemia for the Development of Hyperter Angeles-Hiroshima Study." <u>Hypertens Res.</u> 24:531-536 (2001)	nsion: Data from the	e Hawaii-Los
	61	Kahn et al., "Differential Regulation of Two Glucose Transport Insulin-Treated Diabetic Rats." <u>J. Clin. Invest.</u> 84:404-411 (1	ers in Adipose Cell. 989)	s from Diabetic and
	62	Kario et al., "Hyperinsulinemia and Hemostatic Abnormalities a Infarcts in Elderly Hypertensive Subjects." J. Am. Coll. Cardi	re Associated with ol. 37(3):871-877 (Silent Lacunar Cerebral Mar 2001)
	63	Kim et al., "Normal Insulin-Dependent Activation of Akt/Protei: Phosphoinositide 3-Kinase, in Muscle in Type 2 Diabetes." J. C	n Kinase B, with Di lin. Invest. 104:73	minished Activation of 3-741 (1999)
	64	Krook et al., "Characterization of Signal Transduction and Glu- Type 2 Diabetic Patients." <u>Diabetes.</u> 49:284-292 (Feb 2000)	cose Transport in S	keletal Muscle From
	6.5	Krook et al., "Insulin-Stimulated Akt Kinase Activity is Reduc Subjects." <u>Diabetes.</u> 47:1281-1286 (1998)	ယ	. 20
	66	Krupnik et al., "Functional and Structural Diversity of the Hu 238:301-313 (1999)	0	CE CE
	67	Kupriyanova and Kandror., "Akt-2 Binds to Glut4-Containing Ves Proteins in Response to Insulin." <u>J. Bio. Chem.</u> 274(3):1458-14	64 (Jan 1999)	AE
	68	Kurowski et al., "Hyperglycemia Inhibits Insulin Activation of Phosphatidylinositol 3-Kinase in Rat Skeletal Muscle." <u>Diabete</u>	s. 48:1-6 (Mar 1999))
	69	Loviscach et al., "Distribution of Peroxisome Proliferator-Act Muscle and Adipose Tissue: Relation to Insulin Action." <u>Diabet</u>	ologia. 43:304-311	(2000)
	70	Maegawa et al., "Impaired Autophosphorylation of Insulin Recep Nonobese Subjects with NIDDM." <u>Diabetes.</u> 40:815-819 (Jul 1991)		
	71	Magun et al., "Expression of a Constitutively Activated Form o Preadipose Cells Causes Spontaneous Differentiation." <u>Endocrin</u>	<u>ology.</u> 137(8):3590-	3593 (1996)
	72	Mao et al., "LDL-Receptor-Related Protein 6 is a Receptor for (May 2001)		
z	73		01)	
NOV 0		Monaghan et al., "Dickkopf Genes are Co-ordinately Expressed i 87:45-56 (1999)		
4 2002	75	Nawano et al., "Hyperglycemia Impairs the Insulin Signaling St Activations in ZDF Rat Liver." <u>Biochem. & Biophys. Res. Comm.</u>	266:252-256 (1999)	
2	76	Nikoulina et al., "Potential Role of Glycogen Synthase Kinase- Type 2 Diabetes." <u>Diabetes.</u> 49:263-271 (2000)		
	77	Olefsky and Molina., "Insulin Resistance in Man." <u>Diabetes Mel</u> edition, New York:Elsevier Science Publishing Co., Inc., Chapt	litus., Rifkin and er 8, pps. 121-153	Porte, eds., 4th (1990)
	78	Olefsky and Saltiel., "PPARY and the Treatment of Insulin Resi 11(9):362-368 (2000)		
	79	Paz et al., "Phosphorylation of Insulin Receptor Substrate-1 (Regulates IRS-1 Function." J. Bio. Chem. 274(40):28816-28822 (
Examir			Date Considered	RECEIVED
*Exam	niner: In	itial if reference considered, whether or not citation in conformative with MPEF formance and not considered. Include copy of this form with next communication	P 609; draw line through to applicant.	citation 1 3 2002
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		Patent and Trademark Off	ice ———	10/0//,003			
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	(USG SC	veral sneets in necessary)	Filing Date	Group			
		OTHER RICH COMPANY A. H. THE	15 Feb 2002	3736			
		OTHER DISCLOSSES (methoding Author, Title, I Pedersen et al., "Evidence Against Altered Expression of GL with Obesity or NIDDM." Diabetes. 39:865-870 (Jul 1990)	Date, Pertinent Pages, etc.)	1			
	80		-				
	81	Peifer and Polakis., "Wnt Signaling in Oncogenesis and Embr Science. 287:1606-1609 (2000)	:	de the Nucleus."			
	82	Pinson et al., "An LDL-Receptor-Related Protein Mediates Wn (Sep 2000)	t Signalling in Mice."	7 Hatures 407 1935 - 538			
	83	Piwien-Pilipuk et al., "Growth Hormone Regulates Phosphoryl Protein β by Modulating Akt and Glycogen Synthase Kinase-3."	" <u>J. Bio. Chem.</u> 276:196	OAAT/Enhancer-Binding			
	84	Ridgeway et al., "Wnt Signaling Regulates the Function of M-275:32398-32405 (Oct 2000)		io. Chem.			
	85	Rissanen et al., "Risk of Disability and Mortality Due to On J. 301:835-837 (1990)	TECK CP 2	Population" Br. Med.			
	86	Ristow et al., "Obesity Associated with a Mutation in a Gene New England J. of Medicine 339(14):953-959 (Oct 1998)	etic Regulator & Adipod	Cyte Differentiation."			
	87	Roessler et al., "The Genomic Structure, Chromosome Location, and Analysis of the Homan DKK1 Head Inducer Gene as a Candidate for Holoprosencephaly." Cytogenet. Cell Genet. 89:220-224 (2000)					
	88	Rommel et al., "Mediation of IGF-1-Induced Skeletal Myotube Hypertrophy by PI(3)K/Akt/mTOR and PI(3)K/Akt/GSK3 Pathways." Nature Cell Biology. 3:1009-1013 (Nov 2001)					
	89	Ross et al., "Glycogen Synthase Kinase 3 is an Insulin-Regulated C/EBPα Kinase." Molecular & Cellular Biology, 19(12):8433-8441 (Dec 1999)					
	90	Ross et al., "Inhibition of Adipogenesis by Wnt Signaling."	Science. 289:950-953 (A	aug 2000)			
	91	Saad et al., "Modulation of Insulin Receptor, Insulin Recept 3-Kinase in Liver and Muscle of Dexamethasone-Treated Rats."	or Substrate-1, and Pho J. Clin. Invest. 92:20	sphatidylinositol 165-2072 (Oct 1993)			
	92	Saad et al., "Regulation of Insulin Receptor Substrate-1 in Resistance." <u>J. Clin. Invest.</u> 90:1839-1849 (Nov 1992)	Liver and Muscle of Ani	mal Models of Insulin			
		Schmitz-Peiffer et al., "Alterations in the Expression and Cellular Localization of Protein Kinase C Isozymes ϵ and θ are Associated with Insulin Resistance in Skeletal Muscle of the High-Fat-Fed Rat." Diabetes, 46:169-178 (Feb 1997)					
	93	Diabetes. 46:169-178 (Feb 1997)	keletal Muscle of the H	igh-Fat-Fed Rat."			
VOV	PH (Diabetes. 46:169-178 (Feb 1997) Semenov et al., "Head Inducer Dickkopf-1 is a Ligand for Wnt 11:951-961 (2001)	Coreceptor LRP6." Curr	igh-Fat-Fed Rat."			
NOV 0 4	REC	Diabetes. 46:169-178 (Feb 1997) Semenov et al., "Head Inducer Dickkopf-1 is a Ligand for Wht	Coreceptor LRP6." Curr	igh-Fat-Fed Rat."			
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NOV 0 4 2002	RECEIVED	Diabetes. 46:169-178 (Feb 1997) Semenov et al., "Head Inducer Dickkopf-1 is a Ligand for Wnt 11:951-961 (2001) Shao et al., "Decreased Akt Kinase Activity and Insulin Resi Endocrinol. 167:107-115 (2000) Sinha et al., "Adipose Tissue Glucose Transporters in NIDDM:	Coreceptor LRP6." Curr Stance in C57BL/KsJ-Lep Decreased Levels of Mu	igh-Fat-Fed Rat." ent Biology. rdb/db Mice." J. scle/Fat Isoform."			
V 0 4	RECEIVED 97	Diabetes. 46:169-178 (Feb 1997) Semenov et al., "Head Inducer Dickkopf-1 is a Ligand for Wnt 11:951-961 (2001) Shao et al., "Decreased Akt Kinase Activity and Insulin Resi Endocrinol. 167:107-115 (2000) Sinha et al., "Adipose Tissue Glucose Transporters in NIDDM: Diabetes. 40:472-477 (Apr 1991) Sivitz et al., "Regulation of Glucose Transporter Messenger)	Coreceptor LRP6." Curr Stance in C57BL/KsJ-Lep Decreased Levels of Mu RNA in Insulin-Deficien	igh-Fat-Fed Rat." ent Biology. rdb/db Mice." J. scle/Fat Isoform." t States." Nature.			
NOV 0 4 2002	RECEIVED 97	Diabetes. 46:169-178 (Feb 1997) Semenov et al., "Head Inducer Dickkopf-1 is a Ligand for Wht 11:951-961 (2001) Shao et al., "Decreased Akt Kinase Activity and Insulin Resi Endocrinol. 167:107-115 (2000) Sinha et al., "Adipose Tissue Glucose Transporters in NIDDM: Diabetes. 40:472-477 (Apr 1991) Sivitz et al., "Regulation of Glucose Transporter Messenger 1340:72-74 (Jul 1989) Summers et al., "The Role of Glycogen Synthase Kinase 3B in 19	Coreceptor LRP6." Curr Stance in C57BL/KsJ-Lep Decreased Levels of Mu RNA in Insulin-Deficien Insulin-Stimulated Gluce	igh-Fat-Fed Rat." ent Biology. rdb/db Mice." J. scle/Fat Isoform." t States." Nature.			

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		15 Feb 2002	3736
	OTHER DISCLOSURES (including Author, Title, Date	e, Pertinent Pages, etc.)	
10	Terauchi et al., "Increased Insulin Sensitivity and Hypoglycae Phosphoinositide 3-Kinase." <u>Nature Genetics.</u> 21:230-235 (Feb 1	emia in Mice Lacking	g the p85α Subunit of
10:	Tian et al., "Post-Transcriptional Regulation of Xwnt-8 Expres During Vertebrate Embryonic Development." <u>Development.</u> 126:33	71-3380 (1999)	
102	Toyofuku et al., "Wnt/Frizzled-2 Signaling Induces Aggregation Increased Cadherin-β-Catenin Complex." <u>J. Cell. Bio.</u> 150:225-2	41 (Jul 2000)	
103	Tremblay et al., "Defective Insulin-Induced GLUT4 Translocation is Associated with Alterations in Both Akt/Protein Kinase B ar Activities." <u>Diabetes.</u> 50:1901-1910 (Aug 2001)	d Atypical Protein	Kinase C (ζ/λ)
104	Trumper et al., "Integrative Mitogenic Role of Protein Kinase 921:242-250 (2000)		
105	Tsuda et al., "Hyperinsulinemia ia a Determinant of Membrane F Hypertension." <u>Am. J. Hypertens.</u> 14:419-423 (2001)		
106	Tuttle et al., "Regulation of Pancreatic β-Cell Growth and Sur Kinase Akt1/PKBα." <u>Nat. Med.</u> 7(10):1133-1137 (Oct 2001)		
107	Vogt et al., "Subcellular Distribution of GLUT4 in the Skeleta (Non-Insulin-Dependent) Diabetic Patients in the Basal State."	Diabetologia. 35:4	56-463 (1992)
108	Wang et al., "Protein Kinase B/Akt Participates in GLUT4 Trans Cell. Bio. 19(6):4008-4018 (Jun 1999)		
109	Wehrli et al., "Arrow Encodes an LDL-Receptor-Related Protein Nature. 407:527-530 (Sep 2000)		
110	Willson et al., "Peroxisome Proliferator-Activated Receptor γ ε 70:341-367 (2001)		
111	Zierath et al., "Effects of Glycaemia on Glucose Transport in with NIDDM: In Vitro Reversal of Muscular Insulin Resistance."	<u>Diabetologia.</u> 37:2	70-277 (1994)
112	Zierath et al., "Insulin Action and Insulin Resistance in Human 43:821-835 (2000)	n Skeletal Muscle."	Diabetologia.
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